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L10	9	4 and (reorganiz\$5 with tablespace same database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/11 15:05
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	Document ID	Kind Codes	Source	Issue Date	Pages
1	US 20060173938 A1		US- PGPUB	20060803	17
2	US 20050165713 A1		US- PGPUB	20050728	33
3	US 20040221030 A1		US- PGPUB	20041104	15
4	US 20040215632 A1		US- PGPUB	20041028	17
5	US 20020147736 A1		US- PGPUB	20021010	14
6	US 6834290 B1		USPAT	20041221	26
7	US 5887274 A		USPAT	19990323	40
8	US 5758357 A		USPAT	19980526	40
9	US 5517641 A		USPAT	19960514	41

	Title	Abstract
1	Method, apparatus and program storage device for determining an optimal number of tasks during reorganization of a database system with memory and processor constraints	
2	Method for reorganization management in a set of indexed databases of a computer system	
3	System and method for using a buffer to facilitate log catchup for online operations	
4	Method and system for reorganizing a tablespace in a database	
5	System and method for reorganizing stored data	
6	System and method for developing a cost-effective reorganization plan for data reorganization	
7	Restartable fast DB2 tablespace reorganization method	
8	Fast DB2 tablespace reorganization method that is restartable after interruption of the process	
9	Restartable method to reorganize DB2 tablespace records by determining new physical positions for the records prior to moving using a non sorting technic	

	Current OR	Current XRef	Retrieval Classif	Inventor
1	707/206	707/205		Banzon; Arnold T. et al.
2	707/1			Lafforet, Bernard
3	709/224			Huras, Matthew A. et al.
4	707/100			Isip, Amando et al.
5	707/200			Isip, Amando B. JR.
6	707/205	707/101; 707/2		Pugh; Thomas et al.
7	707/202	707/101		Barry; Richard E. et al.
8	707/202	707/101		Barry; Richard E. et al.
9	707/101			Barry; Richard E. et al.

	Document ID	Kind Codes	Source	Issue Date	Pages
10	WO 3085554 A1		EPO	20031016	71
11	WO 3009180 A2		EPO	20030130	5
12	US 6834290 B		DERWENT	20041221	26

	Title	Abstract
10	METHOD FOR REORGANIZATION MANAGEMENT IN A SET OF INDEXED DATABASES OF A COMPUTER SYSTEM	
11	METHOD AND SYSTEM FOR REORGANIZING A TABLESPACE IN A DATABASE	
12	Reorganization plan developing method for database in database management system, involves generating benefit-cost indicator indicating benefit and cost for object reorganization, for each object, to develop reorganization plan	

	Current OR	Current XRef	Retrieval Classif	Inventor
10				LAFFORET, BERNARD
11				ISIP, AMANDO B JR et al.
12				ARONOFF, E M et al.

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Design and implementation of spatiotemporal database query processing system

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Volume 60 , Issue 1 (January 2002) [table of contents](#)

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↑ ABSTRACT

Researches on spatial and temporal databases have been done independently. In terms of spatial databases, whenever a new object instance is inserted into a database, the old one should be deleted. It stands for the difficulty to manage efficiently the historical information about spatial object that has been changed with temporal evolution. In view of temporal databases, because it did not consider supporting spatial type and operation, it is extremely hard to manage directly spatial objects without any modification. Nevertheless, because these research domains are closely related, an integration field, i.e., spatiotemporal databases, has been launched. Spatiotemporal databases support historical information as well as spatial management for the object at the same time and can deal with geometries changing over time. They can be used in the various application areas such as geographic information system (GIS), urban plan system (UPS), and car navigation system (CNS), and so on. In this paper, we design not only the spatiotemporal query processing (STQP) system, but also implement them. They include a spatiotemporal data model (STDM) that supports bitemporal concept for spatial objects. We also explain a specification of the spatiotemporal database query language, entitled as STQL as well. Compared with the results of the previous researches, we insist that it is the first pilot system in the spatiotemporal database area that supports temporal concept and spatial expression as well.

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Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

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↑ INDEX TERMS

Primary Classification:

H. Information Systems

↳ H.2 DATABASE MANAGEMENT

↳ H.2.8 Database applications

↳ **Subjects:** Spatial databases and GIS

Additional Classification:

D. Software

↳ D.2 SOFTWARE ENGINEERING

↳ D.2.12 Interoperability

↳ **Subjects:** Interface definition languages

H. Information Systems

↳ H.2 DATABASE MANAGEMENT

↪ **H.2.3 Languages**

↪ **Subjects:** [Query languages](#)

↪ **H.2.4 Systems**

↪ **Subjects:** [Query processing](#)

General Terms:

[Algorithms](#), [Experimentation](#), [Languages](#), [Measurement](#), [Performance](#)

Keywords:

[GIS](#), [evaluation](#), [query processing](#), [query-language](#), [spatiotemporal database](#), [system](#)

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IEEE STD IEEE Standard

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